

# Digital Curb Asset Management

Overview of LADOT's Code the Curb Program

May 2022





2014 - 2015 2016 - 2018 2018 - 2019 2019 - 2020 2021 2022 - 2024 2025+

#### Code the Curb has LA debut

Mayor Garcetti's Parking Reform WG makes suggestions, including call for a digital parking management

system

# Mobility in a digital age explored

LA sets goals for complex and evolving ecosystem of public and private services

for mobility

# Tech for transportation is realized

LA uses techenabled policy tools to manage changes in LA mobility market and learns key lessons

#### Desired curb asset management planned

LA studies
existing curb
asset practices
and develops
roadmap towards
desired future
state

# Digital curb pilot phase to measure community benefits

LA tests curb data and policy ecosystems needed to realize active digital curb management

#### Incremental shift towards integrated curb management

management

LA aims to design an integrated digital curb management system based on lessons learned during pilot projects and OMF MDS & CDS user community

# Continuous system development and maintenance

LA would operate, continue to develop, and maintain new practices to enable digital expression of curb rules and access permits

## **Asset Management Roadmap - Redirection**

#### Pre March 2020:

- Adopted Curb Asset Management Roadmap: 29 specific activities, 6 work categories
- Each activity included cost, benefit, & timeline
- Roadmap (if fully resourced) would take 5 years to deliver

#### **Interim Approach (March 2020 to present):**

- Test and evaluate (Pilots)
- Leverage other curb management efforts (Partnerships)
- Seek outside grants (Funding)





#### LADOT CODE THE CURB PROGRAM

#### **Recent Successes**





#### **Completed:**

- Code the Curb Phase 1 Roadmap
- Zero Emission Delivery Zones installation of 5
- Digitizing the Curb Pilot (CurblQ)

#### In Progress:

- Pilots (Curbside Monitoring, ZE Delivery Zones)
- Partnerships (UML, OMF, SCAG, LA County Metro)
- Funding (Department of Energy, SCAG)



## **Zero Emission Delivery Zones**





# Why a Zero Emission Delivery Zone?

- → Curbside management strategy
- → Delivery companies are investing in ZEV fleet
- → Air quality improvements benefit communities

→ Demonstrate, evaluate, and learn





### **Site Selection Criteria - Proposed**

#### Recommended criteria:

#### → High demand curbsides

Based on Southern California Association of Governments (SCAG) Last Mile Freight Delivery Study and limited delivery company provided data

#### → Areas burdened by pollution

California Communities Environmental Health Screening Tool (CalEnviroScreen)

#### → Feasible & not disruptive

Creating loading spaces and not taking away highly utilized parking spaces

#### → Administratively realistic

Adequate resources to implement, monitor and enforce



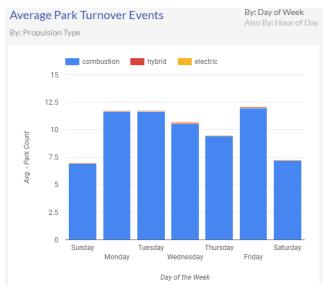


## **Enforcement**

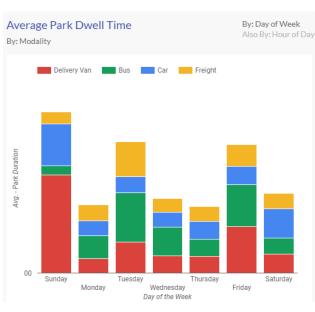
- → Adopted municipal code (law) to enforce
- → Educated the public and officers
- → Allow delivery companies to register ZEV vehicles
- → Two week warning period
- → Cargo bikes and other light electric freight vehicles allowed



## **Results To Date**



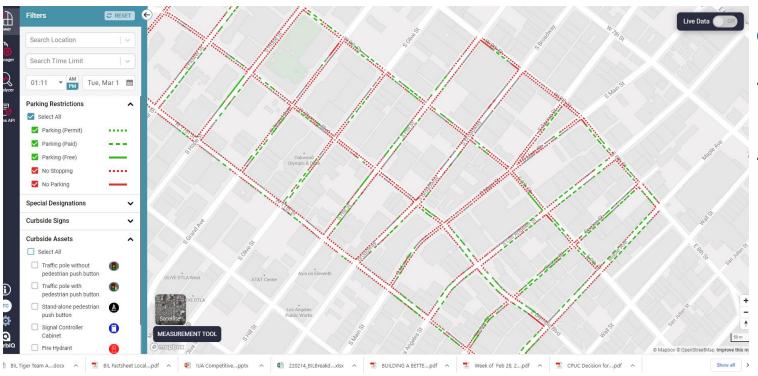






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## **Digitizing the Curb Pilot**



#### **CurbIQ Screen Shot**

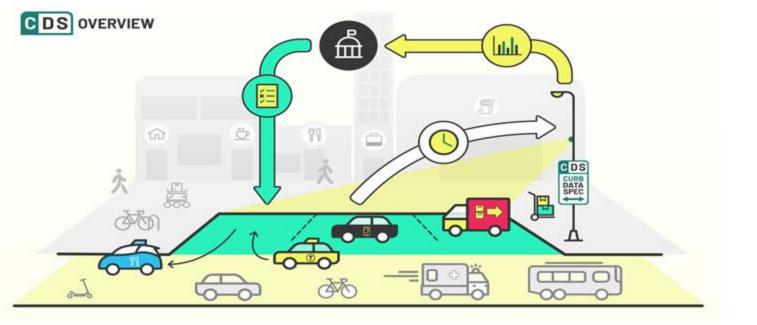
- Digitized parking regulations
- Digitized assets:
  - Bike racks
  - Parking meters
  - Fire hydrants
  - Signal cabinet
  - Traffic signal equipment



#### LADOT CODE THE CURB PROGRAM

### **Curb Data Specification Overview**

CDS allows cities to digitally represent their curb space, communicate with curb users in different ways, and use metrics to improve those curbs.





**CURBS API** 



**EVENTS API** 



METRICS API

### Future of Urban Delivery in LA

#### **Near Term**

- Expansion of ZEDZs
- Meter Commercial Loading Zones (CLZs)
  - Frictionless payments
  - Invest to create more CLZs

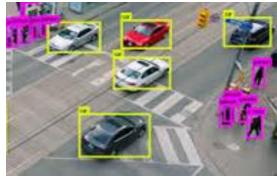
#### **Mid Term**

Prioritize ZEVs access to Downtown LA

#### **Long Term**

Real-time digital curb management and integration







## Questions

#### **Questions?**

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